Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

- (Currently amended) A microparticle composition comprising nanomagnetic
 particles and a matrix, wherein the nanomagnetic particles are distributed within the matrix and
 wherein the composition has -at-least one of the following properties: (a) a VAR of at least about
 1 Watts/ cm³ under alternating magnetic field conditions suitable for use in a patient; [[(b)]] and
 a density of about 2.7 or less; or (e) a size range of about 100 nm to about 200 microns.
- (Previously presented) A microparticle composition according to claim 1, wherein less than about 40% of the volumetric loading of the microparticle composition is magnetic nanoparticles.
- (Previously presented) A microparticle composition according to claim 2, wherein the volumetric loading of nanomagnetic particles is less than 30% of the microparticle composition.
- (Previously presented) A microparticle composition according to claim 2, wherein
 the volumetric loading of nanomagnetic particles is less than 20% of the microparticle
 composition.

5-8. (Cancelled)

9. (Currently amended) A microparticle composition according to claim 1 comprising nanomagnetic particles and a matrix, wherein the nanomagnetic particles are distributed within the matrix and wherein the composition has a VAR of at least about 1 Watts/cm³ under alternating magnetic field conditions suitable for use in a patient; and a density of about 2.7 or less, wherein the microparticles within the composition have a size of about 25 nm 10 microns to about [145]] 50 microns.

- (Previously presented) A microparticle composition according to claim 1, wherein composition has a VAR of about 10 Watts/ cm³ under alternating magnetic field conditions suitable for use in a patient.
- (Previously presented) A micro particle composition according to claim 1
 wherein the alternating magnetic field is operated at a frequency in the range of about 50-300
 kHz and field strength of about 60-120 Oe.
- (Previously presented) A microparticle composition according to claim 1 wherein
 the alternating magnetic field is operated at a frequency in the range of about 100-200 kHz and
 field strength of about 60 Oe.
- (Original) A microparticle composition according to claim 11 wherein the alternating magnetic field is operated at a frequency in the range of about 100 kHz and field strength of about 90 Oe.
- (Previously presented) A microparticle composition according to claim 1 wherein the nanomagnetic particles distributed within the micro particles are superparamagnetic particles.
- 15. (Currently amended) A microparticle composition according to claim 14 wherein the superparamagnetic particles are either: (a) ferrites of general formula MO.Fe₂O₃ MO.Fe₂O₃ where M is a bivalent metal such as Fe, Co, Ni, Mn, Be, Mg, Ca, Ba, Sr, Cu, Zn, Pt or mixtures thereof, or (b) magnetoplumbite type oxides of the general formula MO.6Fe₂O₃ MO.₆Fe₂O₃ where M is a large bivalent ion, metalle metallic iron, cobalt or nickel.
- (Original) A microparticle composition according to claim 15 wherein the superparamagnetic particles are free Fe, Ni, Cr or Co; oxides of Fe, Ni, Cr or Co; or mixtures of Fe, Ni, Cr or Co.

- 17. (Currently amended) A microparticle composition according to claim 15 wherein the superparamagnetic particles are prepared from iron oxide such as magnetite (Fe304Fe304) or maghemite (y-Fe203y-Fe301) and the superparamagnetic particles have a size of less than 45 nm.
- (Original) A microparticle composition according to claim 16 wherein the superparamagnetic particles are maghemite nanoparticles.
- (Previously presented) A microparticle composition according to claim 14 wherein the superparamagnetic particles have a size of between 1 nm and 40nm.
- 20. (Previously presented) A microparticle composition according to claim 1, wherein the composition is prepared from materials suitable for use in a patient and the particles when delivered to a patient are placed in an alternating magnetic field and are capable of heating tissue in said patient.
- (Previously presented) A microparticle composition according to claim 1 wherein the matrix in which the nanoparticles are distributed is a polymer matrix.
- (Original) A microparticle composition according claim 21 wherein the polymer matrix is suitable for use in human.

23 - 24. (Cancelled)

25. (Previously presented) A micro particle composition according to claim 1 wherein the micro particles in the composition are adapted for site specific delivery to or accumulation within a tissue in a patient.

26 - 27. (Cancelled)

- 28. (Previously presented) A method for heating a target site in a patient including the steps of:
- (i) administering a microparticle composition according to claim 22 to a target site in a patient; and
- (ii) exposing the target site to an alternating magnetic field, of a clinically acceptable frequency and strength, wherein the combination of the alternating magnetic field with the micro particle composition induces heat within the target site.
- 29. (Original) The method according to claim 28 wherein the microparticles are of a size and density that permits the transport of the microparticle composition to the capillary beds supplying the target site.
- (Original) The method according to claim 28 wherein the alternating magnetic field is operated at a frequency in the range of about 50-300 kHz and field strength of about 60-120 Oe.
- (Currently amended) The method according to claim 30 wherein the alternating magentie magnetic field is operated at a frequency of about 100 kHz and a field strength of about 90 Oe.

32. -34. (Cancelled)

 (New) The microparticle composition according to claim 1 having a size range of about 100 nm to about 200 microns.